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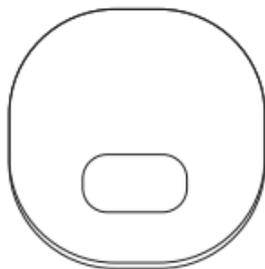
BRIGHT BEACON (Beijing) Science and Technology Ltd.

Beacon

Product manual

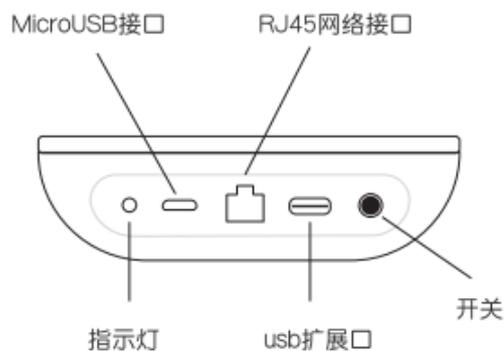
I. Product introduction

Cloud beacon is a network sniffer based on iBeacon protocol. Through iBeacon and WiFi, to realize online iBeacon equipment information collection, at the same time, it can conduct online management on iBeacon base station in a certain range around. Support active and passive deployment, and realize the remote management and deployment, easy to collect data and information, so as to help enterprises to obtain more accurate data for marketing.



尺寸：106.87*106.87*24.31

重量：90g



尺寸:Dimension

重量: Weight

MicroUSB 接口: MicroUSB interface

RJ45 网络接口: RJ45 network interface

指示灯 Indicator light

USB 扩展口 USB extending port

开关 Switch

1.1 Hardware interface function description

Hardware interface	Mark	Function description
Switch	ON/OFF	Short press to ON/OFF

		machine (default by boot)
		Long press to reset (clear configuration file)
USB extending port	sensor	Support USB communication function extending port
RJ45 network interface		Support Ethernet cable interface
MicroUSB interface	5V 1A	Connect the power adapter to power a device

Note: When USB extending interface external connected with high-power device (USB EVDO), it is recommended to use 5V 2A power adapter for power supply of device, ensure the normal operation of device.

1.2 Radio frequency information parameters

Bluetooth specification	Bluetooth smart 4.0
Bluetooth transmission power	20db
Signal receiving sensitivity	-106dbm
WLAN transmitted power	18db

1.3 Background management page

Refer to CloudBeacon server-side user manual, see (II) below

1.4 Indicator light state description

After device power on, light is slow flash, on for 500ms, off for 2s

WIFI working, light is normally on.

Bluetooth is scanning, light is slow flash, on for 500ms, off for 5s

Bluetooth connection is established, light is slow flash, on for 1s, off for 2s

Device is abnormal, light is quick flashing, on for 200ms, off for 200ms

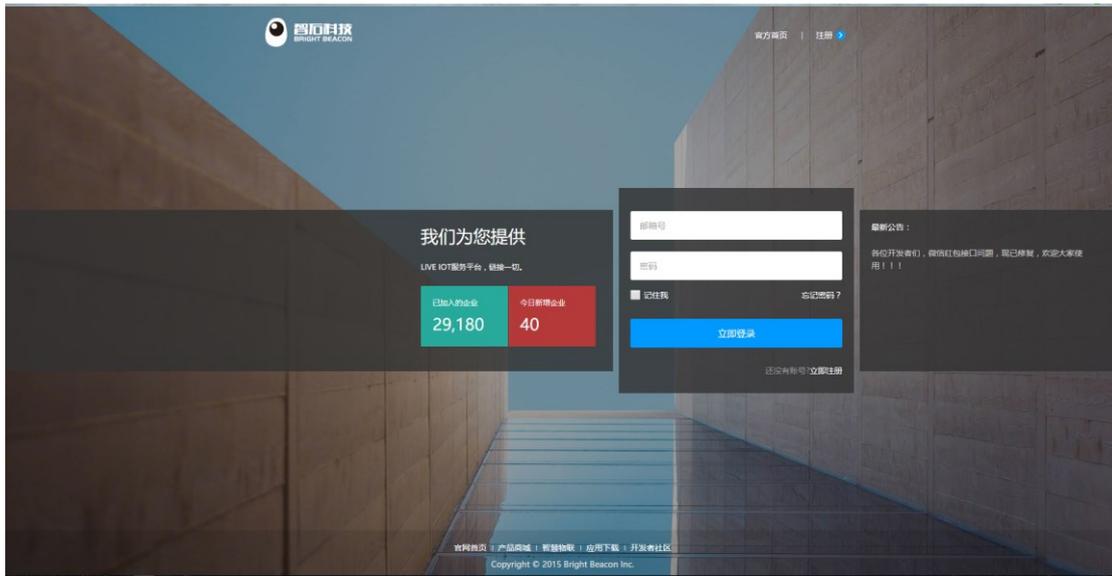
1.4 Mobile phone software configuration procedure

Refer to CloudBeacon mobile terminal operating tutorial, see (III) below

II. Service terminal user manual

1. Register and login

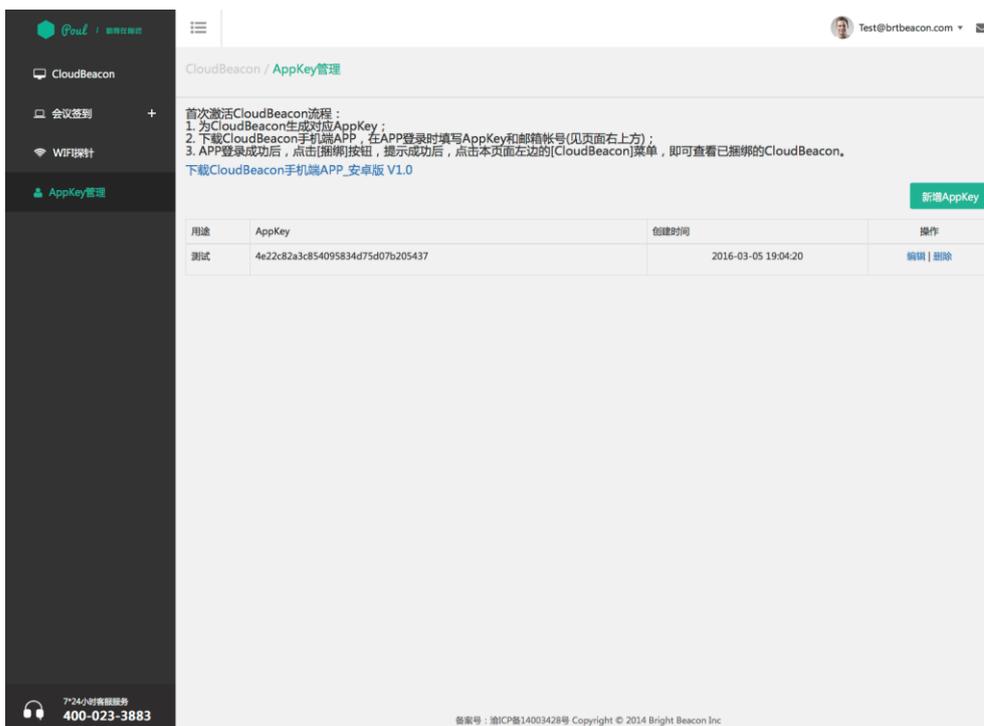
CloudBeacon management system login address is <http://cloudbeacon.brtbeacon.com>, it is recommended to use topspeed mode of Google browser however, QQ or 360 browser. If you do not have an account, please click the register link on top right corner. See Fig. 1-1



2. Binding CloudBeacon

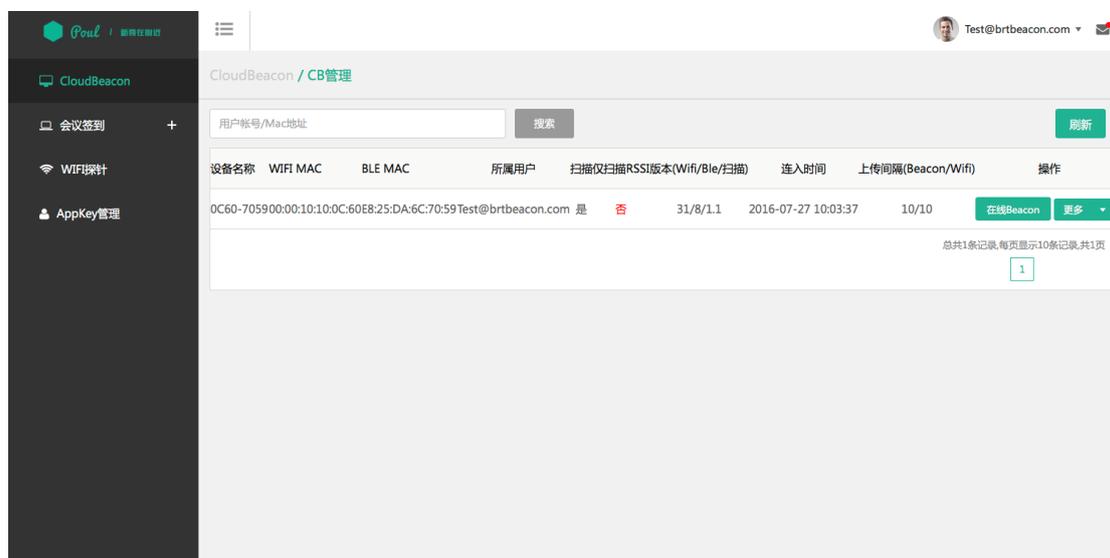
User login system for the first time, one needs to bind the purchased CloudBeacon to his own account, the system will show the bundled CloudBeacon. Bundled CloudBeacon process is as follows:

1. To generate the corresponding AppKey for CloudBeacon;
2. Download CloudBeacon mobile APP, when APP login, fill in AppKey and mail account (see the top right of page);
3. After APP success login, click [Binding] button, the prompt of success, click [CloudBeacon] menu on the left of this page to check the bundled CloudBeacon.



3. Management interface

After user login, there will list the bundled account CloudBeacon in CloudBeacon interface, see Fig. 3-1.



Click “On-line BEACON”, will list the current CloudBeacon scanning to Beacon device.

Click “More”, will pop up the following menu, see Fig. 3-2



Start scanning: after scanning starts, CloudBeacon will scan the peripheral Beacon device and Bluetooth, the store the scanned Beacon device information and Wifi probe data, and send them to CloudBeacon server, after CloudBeacon server received, it will show the Beacon device information on [On-line Beacon] function interface, and Wifi probe data will be shown on [Wifi probe] function interface.

Data report configuration: CloudBeacon will scan the data upload to cloudBeacon server in form of TCP mode, also can upload the scanned data to customer’s server in form of Http, upload the configuration parameter can also by this menu setting.

Scanning device type: in this menu, configurable CloudBeacon can scan the identified Beacon device type.

Bluetooth setting: in this menu, can configure CloudBeacon Bluetooth parameters.

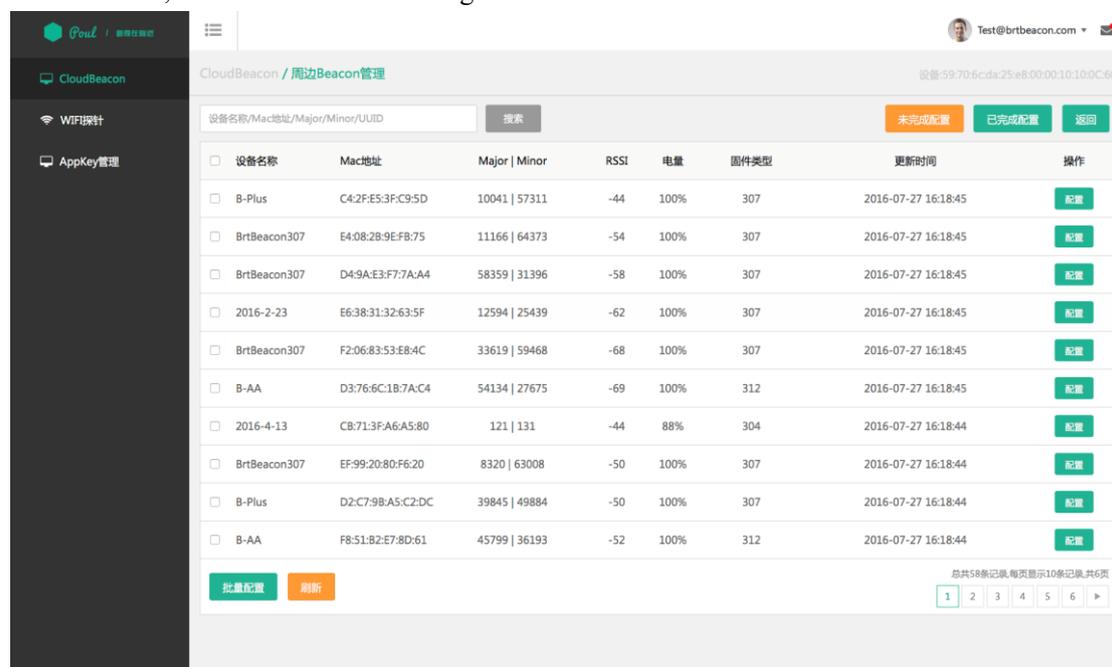
Unbundling: user can unbundle the bundled CloudBeacon, after unbundling, this device will not be displayed in CloudBeacon list.

Basic information: display CloudBeacon basic information

List abnormal device: show Beacon device with electric quantity lower than 30%.

4. On-line Beacon

In CloudBeacon list, click [online Beacon] button, will list the current Beacon device scanned by CloudBeacon, as shown below: (see Fig. 4-1)



The screenshot shows the CloudBeacon web interface. The left sidebar contains navigation options: CloudBeacon, WiFi探针, and AppKey管理. The main content area is titled 'CloudBeacon / 周边Beacon管理'. It features a search bar at the top with a '搜索' button. Below the search bar is a table of beacon devices. The table has columns: 设备名称 (Device Name), Mac地址 (Mac Address), Major | Minor, RSSI, 电量 (Battery), 固件类型 (Firmware Type), 更新时间 (Update Time), and 操作 (Action). Each row includes a checkbox and a '配置' (Configure) button. At the bottom of the table, there are buttons for '批量配置' (Batch Configure) and '刷新' (Refresh). A pagination bar at the bottom right shows '1 2 3 4 5 6' and a right arrow, with a note '总共58条记录, 每页显示10条记录, 共6页'.

<input type="checkbox"/>	设备名称	Mac地址	Major Minor	RSSI	电量	固件类型	更新时间	操作
<input type="checkbox"/>	B-Plus	C4:2F:E5:3F:C9:5D	10041 57311	-44	100%	307	2016-07-27 16:18:45	配置
<input type="checkbox"/>	BrtBeacon307	E4:08:2B:9E:F8:75	11166 64373	-54	100%	307	2016-07-27 16:18:45	配置
<input type="checkbox"/>	BrtBeacon307	D4:9A:E3:F7:A:A4	58359 31396	-58	100%	307	2016-07-27 16:18:45	配置
<input type="checkbox"/>	2016-2-23	E6:38:31:32:63:5F	12594 25439	-62	100%	307	2016-07-27 16:18:45	配置
<input type="checkbox"/>	BrtBeacon307	F2:06:83:53:E8:4C	33619 59468	-68	100%	307	2016-07-27 16:18:45	配置
<input type="checkbox"/>	B-AA	D3:76:6C:1B:7A:C4	54134 27675	-69	100%	312	2016-07-27 16:18:45	配置
<input type="checkbox"/>	2016-4-13	CB:71:3F:A6:A5:80	121 131	-44	88%	304	2016-07-27 16:18:44	配置
<input type="checkbox"/>	BrtBeacon307	EF:99:20:80:F6:20	8320 63008	-50	100%	307	2016-07-27 16:18:44	配置
<input type="checkbox"/>	B-Plus	D2:C7:9B:AS:C2:DC	39845 49884	-50	100%	307	2016-07-27 16:18:44	配置
<input type="checkbox"/>	B-AA	F8:51:B2:E7:8D:61	45799 36193	-52	100%	312	2016-07-27 16:18:44	配置

Configuration: Click the information parameter of configurable Beacon;

View: if the Beacon type cannot be identified, then only view the information parameter of Beacon;

Batch configuration: To select multiple Beacon and configure the same parameters at the same time;

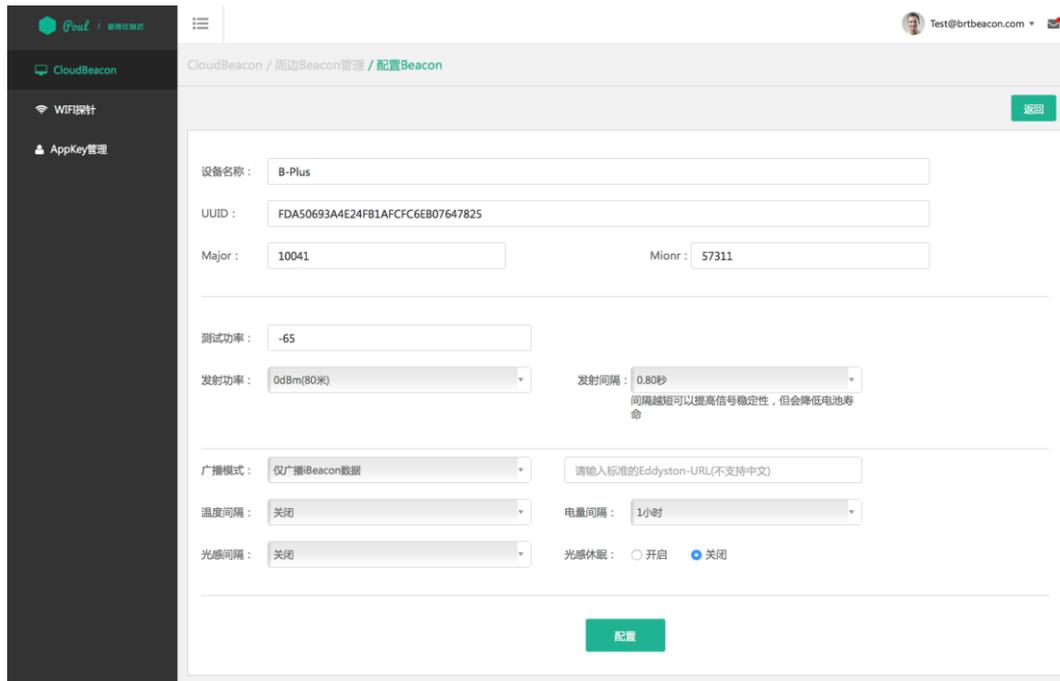
Unfinished configuration: in batch configuration, display the unfinished configuration of Beacon;

Finished configuration: in batch configuration, display the finished configuration of Beacon;

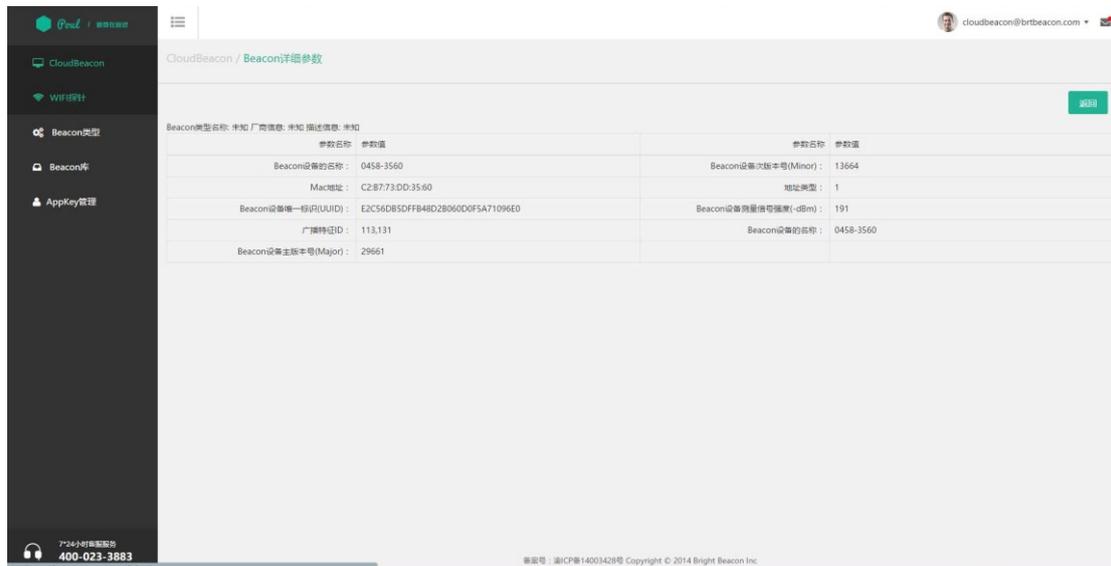
Search: According to the device name, Mac address, Major and Minor for fuzzy search.

4.1 Single Beacon configuration

Click "Configuration" to configure single Beacon, as shown in the figure below (see Fig. 4-1-1)



Fill in the Beacon parameters need to be modified, click [SAVE] button, the server will send Beacon parameters to CloudBeacon, CloudBeacon receives the parameters, will look up the corresponding Beacon configuration parameters, the whole process needs 10 to 60 seconds, after configuration complete, system will prompt success or failure information.



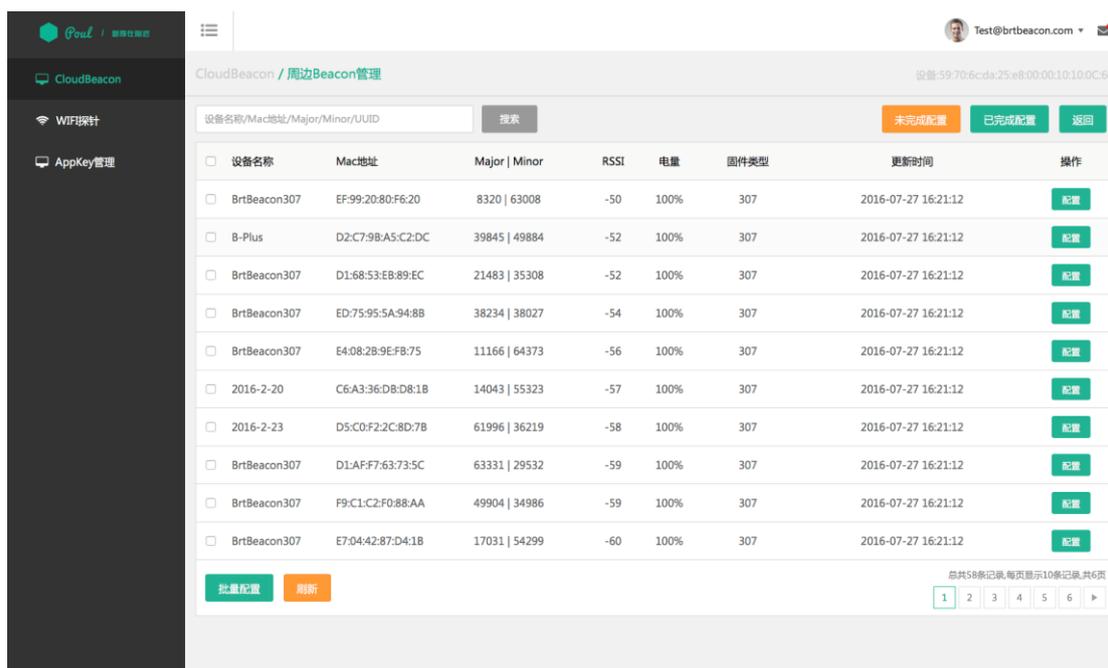
4.2 View Beacon parameter

If the type of the Beacon cannot be recognized, then the Beacon parameters cannot be configured, can only view the Beacon parameters, as shown in the figure below: (see figure 4-2-1)

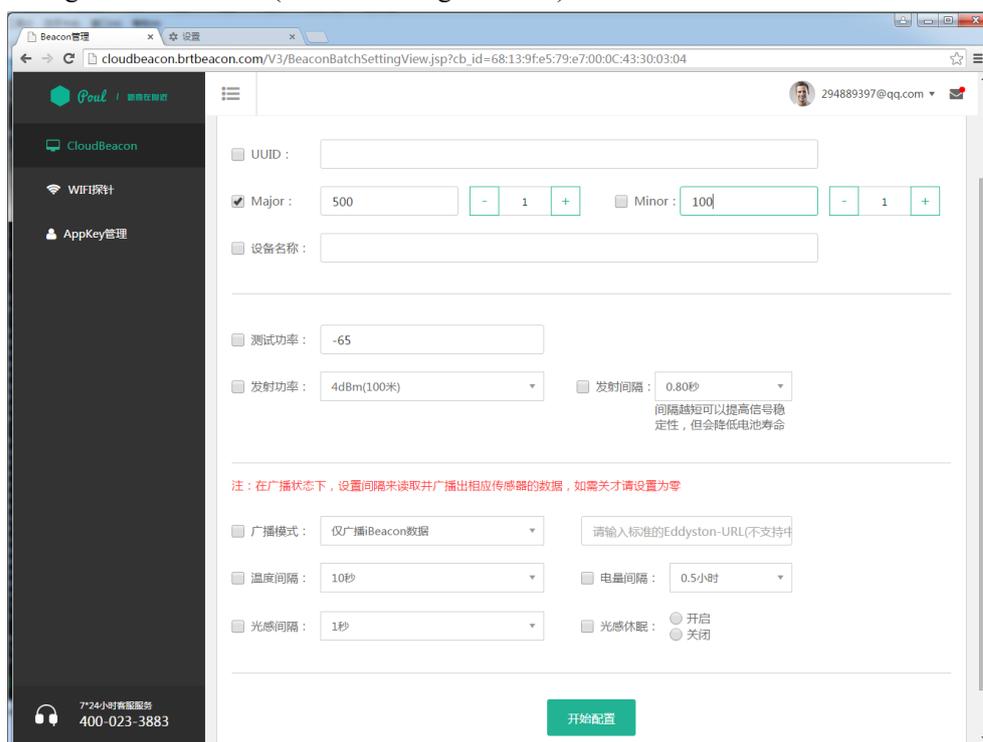
4.3 Batch configuration

If a large number of Beacon need configuration, using single configuration function is very time-consuming; Use [batch configuration], can select multiple Beacon at the same time configure

the same parameters, is very convenient. As shown in the figure below (figure 4-3-1)



Select the Beacon in configuration, and then click "batch configuration" and show the following configuration interface (as shown in figure 4-3-2)



Before configuring the designated parameter, user needs to select the configured parameter,

configuring Major parameter for example, one needs to select Major parameter Major :



, click button , can make Major and Minor increasing based on previous

Beacon.

开始配置

Click [开始配置](#) , system will submit the configuration for background processing automatically, then return to online Beacon interface. In online Beacon interface, can click

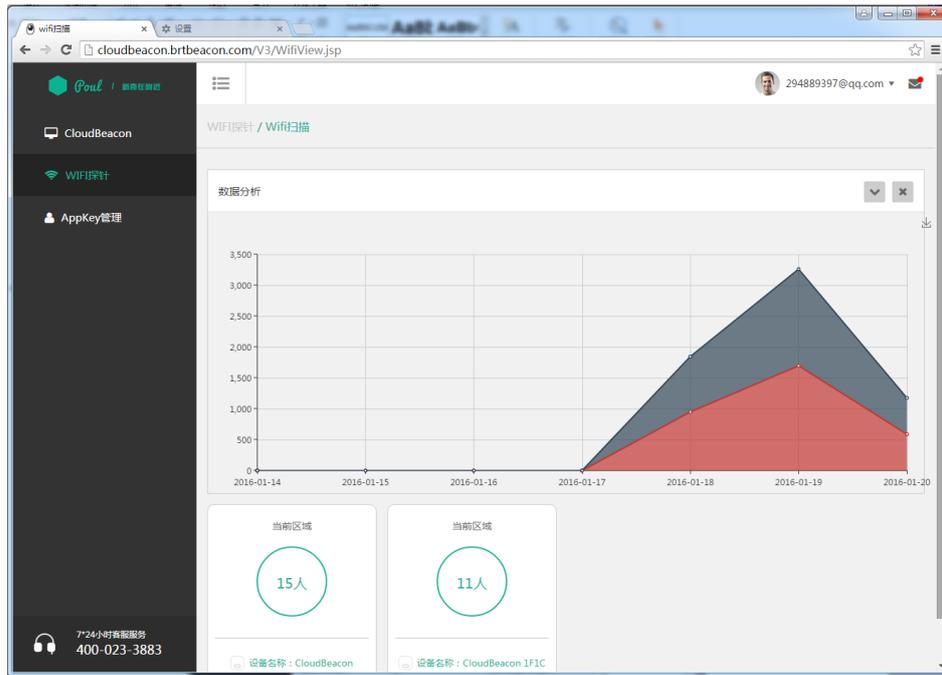
未完成配置

and

已完成配置

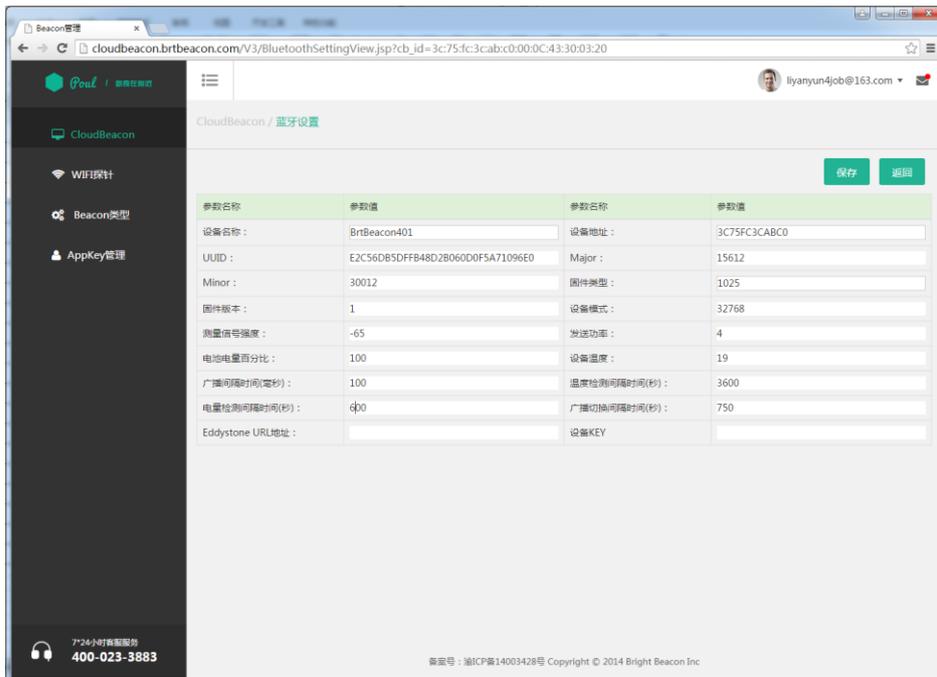
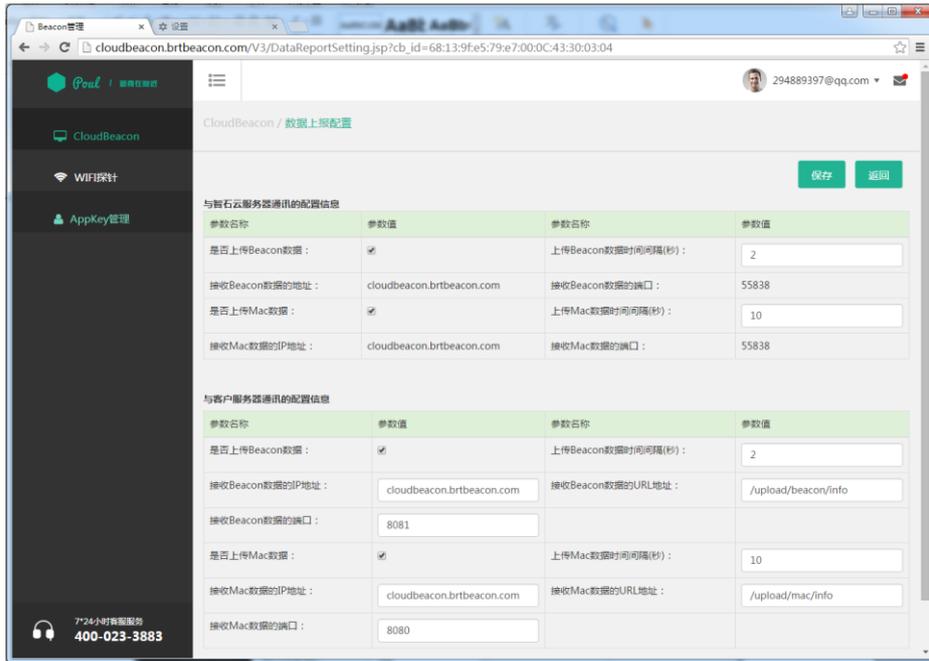
to view the configuration results.

5. WIFI probe (see Fig. 5-1-1)



6. Other configuration

Data report configuration (see Fig. 6-1-1)



CloudBeacon basic information (see Fig. 6-1-3)



III. CloudBeacon Mobile terminal configuration of network connection and binding

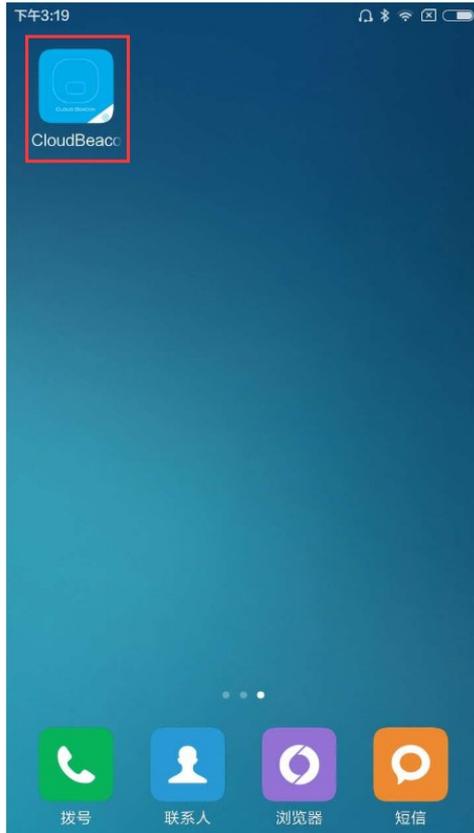
1. Power on CloudBeacon, CloudBeacon adopts Micro USB for power supply, it recommended 5V 1A power adapter for device power supply.
2. Download CloudBeacon configuration APP. Download link: <http://fir.im/cloudbeacon>, or log in CloudBeacon management background: <http://cloudbeacon,brtbeacon.com>, And download in Appkey management page.



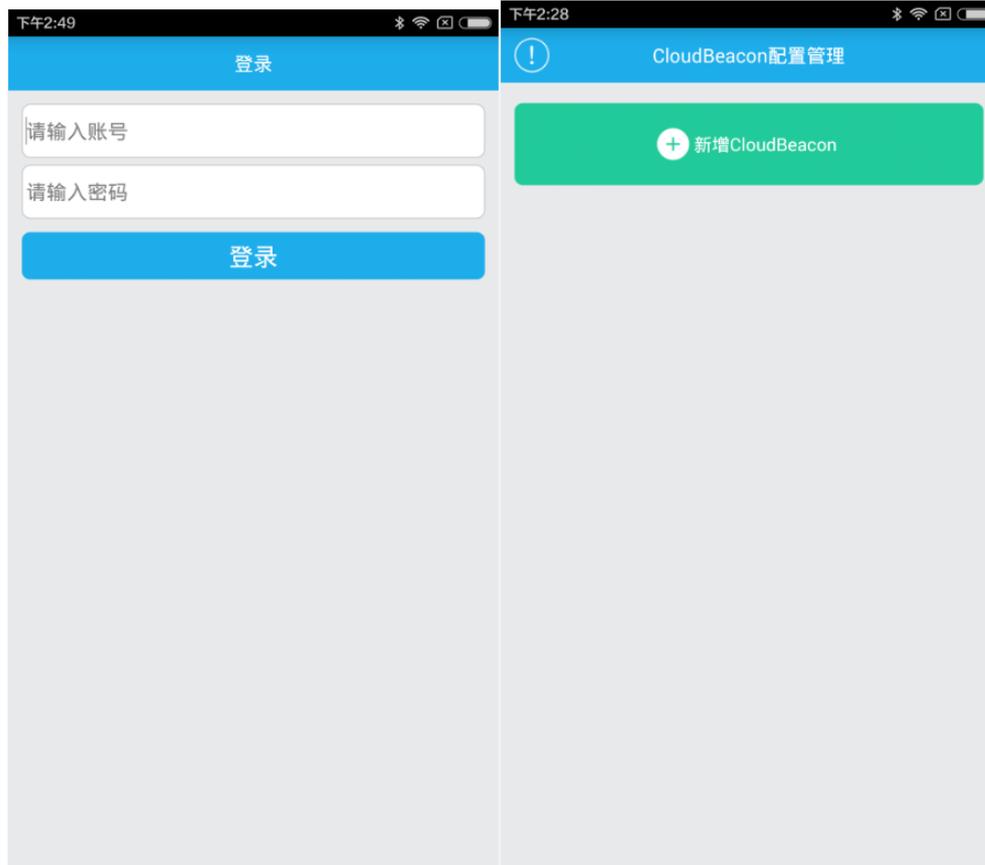
扫描二维码下载

Scan 2D barcode to download

3. Connect the phone WIFI to CloudBeacon emission WIFI. Open the phone Settings function select WLAN, select CloudBeacon emitted WIFI in attachment WALN list, CloudBeacon emitted WIFI name is named by BRTXXXX, click to enter the password, default password is 12345678.
4. Turn on CloudBeacon configuration terminal APP, see Fig. 3-1-1



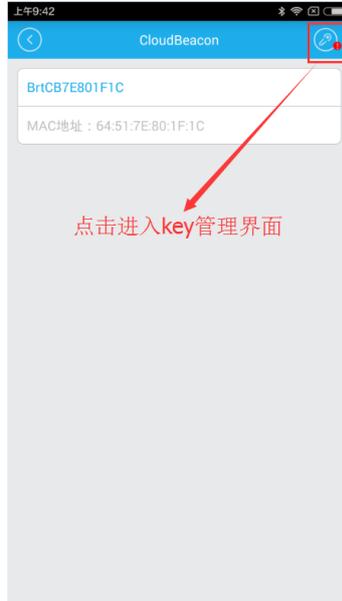
5. Enter the user name and password, the user name and password are the account and password of developer center (login function here is to record the user's accounts, but also have to enter the correct username and password, and will be validated when binding the device). As shown in figure 3-1-2
6. Add CloudBeacon, see Fig. 3-1-3



7. Choose online pattern. CloudBeacon provides two online patterns, respectively are limited connection and STA mode, limited connection refers to connect intent network cables from network ports, the STA mode refers to by setting to connect CloudBeacon connected to surrounding WIFI to get to the Internet, here we mainly illustrate the STA mode configuration. As shown in figure 3-1-4



8. Add APPKey, operation procedure as shown below:



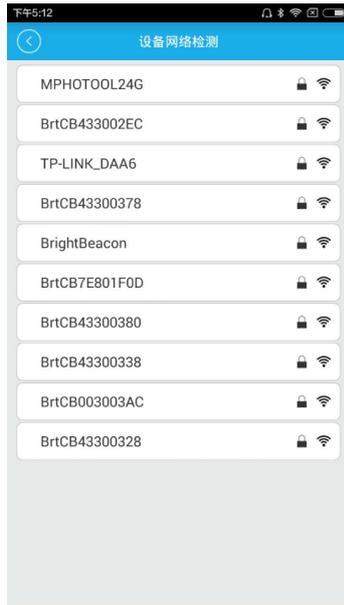


9. CloudBeacon list interface, see Fig. 3-1-4



Click CloudBeacon information to enter into available WIFI list surround CloudBeacon

10. CloudBeacon surrounding WIFI management interface. After entering into CB surrounding wifi management interface, it will determine whether the CB is connected to network or not, if it is connected to network, then directly operate binding CB with user account, if it is not connected to network, then load the available WIFI list surrounding CB device (here mainly show operation without network connection).



11. STA mode CB binding with user

a、Bind CloudBeacon binding

